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John Littler, Director Hazardous Waste Clean-up Program Washington Department of Ecology Mail Stop PV-11 Olympia, Washington 98504

Dear Mr. Littler:

The Environmental Protection Agency (EPA) conducted a study at the Pasco Sanitary Landfill, Pasco, Washington, during July of 1985. The purpose of this letter is to transmit the final report and recommendations to the Washington Department of Ecology (WDOE). Previous information regarding this study was provided to Ecology through staff contacts made with Mike Gallagher of the Olympia Office, and Larry Peterson of the Spokane Regional Office.

The EPA investigation focused on five industrial waste disposal areas in the landfill. The purpose of the study was to determine if off-site migration of those wastes was occuring, and if so, if the site poses a threat to human health and the environment. Of particular concern was the fact that herbicide manufacturing wastes were disposed of at the site; these herbicides wastes may have contained low levels of dioxin. Thus, the study was conducted as part of EPA's National Dioxin Study.

Soil and groundwater samples were taken downgradient of each of the five industrial waste disposal areas. A total of 15 groundwater samples and 18 composite soil samples were taken in the landfill. All samples were analyzed for EPA's Hazardous Substance List with one exception - soils were not analyzed for volatile organic compounds.

As would be expected in a landfill, several organic and inorganic compounds were detected in the soils and groundwater near the industrial wastes disposal areas. At this site, the main route of possible human exposure to the chemicals is through groundwater. The following therefore summarizes EPA findings regarding groundwater in the area:

The groundwater at the landfill was encountered at 40-77 feet below the land surface. It flows in a southwesterly direction. No herbicides were detected in the groundwater; therefore no furthur dioxin testing is required.

Several other organic compounds were detected in the groundwater. The most significant levels found were for trichloroethylene and tetrachloroethylene which were found in concentrations above EPA's current drinking water standards. However, this groundwater is not used for drinking. The major groundwater use in the region is irrigation. EPA believes that even at these levels, the chemicals detected in groundwater

